



Dongfeng Cummins Curve and Datasheet

Engine Type: ISDe200 30(Truck)

Curve Number: FR92153



Dongfeng Cummins Engine Co.,Ltd

Engine Performance Curve FR92153

EURO 3

Engine Model: ISDe200 30

Engine Configuration: D323002BX03

Advertised Power: 147 kW @ 2700 rpm

CPL: 1981

200 PS @ 2700 rpm

Peak Torque: 550 N.m @ 1400 rpm

Displacement: 4.5L

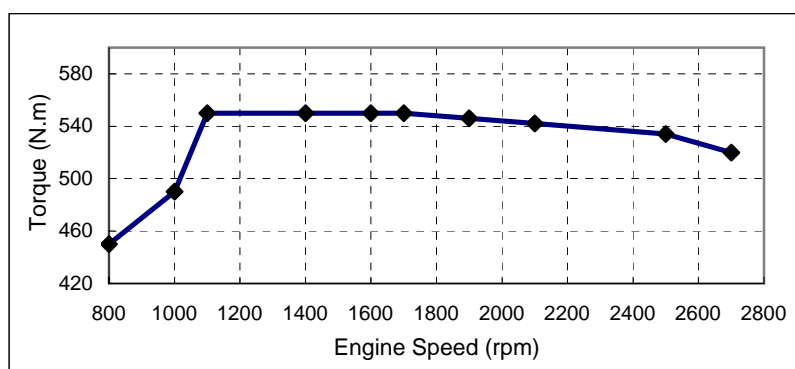
Bore: 107 mm

Aspiration: Turbocharged & Charge Air Cooled

Cylinders: 4

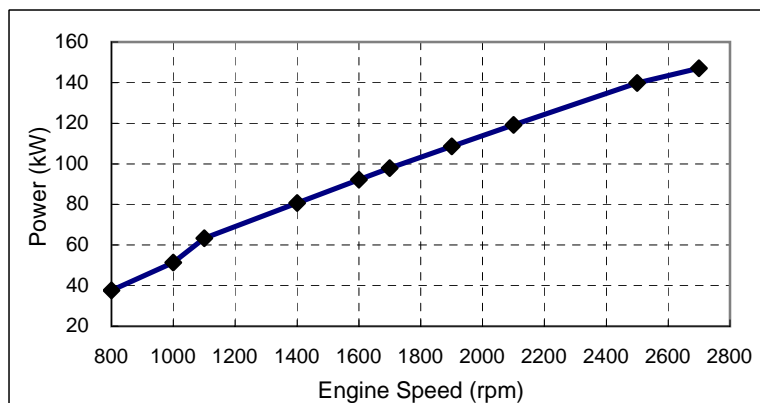
Stroke: 124 mm

Fuel System: Bosch (HPCR)



Torque

rpm	N.m
800	450
1000	490
1100	550
1400	550
1600	550
1700	550
1900	546
2100	542
2500	534
2700	520



Power

rpm	kW
800	38
1000	51
1100	63
1400	81
1600	92
1700	98
1900	109
2100	119
2500	140
2700	147

Performance data shown is nominal, and is to 80/1269/EEC(as amended) conditions of 990mbar barometric pressure and 25 deg C air intake temperature.

All data are based on the engine operating with fuel system, water pump, lubricating oil pump and with inle restriction and exhaust restriction at or below datasheet limits. Not included are compressor,fan,alternator, optional equipment and driven components.



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General

Certification: GB 17691—2005
 Compression Ratio: 17.3:1

Air Intake System

Max. temperature rise between ambient air and turbo air inlet: - °C 15
 Max. intake restriction with dry type air cleaner, with clean filter
 Medium Duty: - kPa 2.9
 Heavy Duty: - kPa 3.7
 Max. intake restriction with dirty filter: - kPa 6.2

Charge Air Cooling

Max. temperature rise between ambient air and intake manifold: - °C 30
 Max. ΔP between turbo out and manifold in: - kPa 13.5
 Intake pipe size normally acceptable: - mm dia 65

Exhaust System

Max. back pressure imposed by complete exhaust system: - kPa 10
 Exhaust pipe size normally acceptable: - mm dia 75

Cold Start Performance

Min. unaided cold start temperature: -12 °C @120 average rpm
 Min. aided cold start temperature: -24 °C @120 average rpm

Performance Data

Idle Speed: - rpm 600 - 800
 Maximum no load governed speed: - rpm 3050
 Maximum over speed capability(15secs max.): - rpm 4200
 Maximum altitude for continuous operation: - m 4700
 Clutch engagement torque at 800rpm: - N.m 450
 When using exhaust brakes:
 Exhaust pressure, at 3050rpm, at turbocharger outlet, must not exceed: - kPa 413
 Approximate engine retardation: - kW TBD

Engine Speed RPM	Oil Pressure kPa	Air to Turbo m³/min	Air From Turbo		Exhaust Flow m³/min	Exhaust Temp °C	Fuel Consumption kg/hr	Coolant Flow l/min	Heat Rejection		Friction Power kW
			Flow kg/min	Pressure Pa					Coolant kW	Air kW	
2700	400	10.4		162		663					38.0
2300	400	10.0		165		677					30.6
1400	302	4.71		136		592					16.7

All values within $\pm 5\%$

Base engine data refer to Datasheet D323002BX03

All data subject to change without notice. Dongfeng Cummins Engine Co., Ltd